Colloids and Surfaces A: Physicochemical and Engineering Aspects, 77 (1993) 234–235
Elsevier Science Publishers B.V., Amsterdam

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

Vol. 77 No. 1

Special Issue: Concentrated Dispersions — Advances in Instrumental Methods. A collection of papers presented at a one-day meeting held at the Society of Chemical Industry, 14/15 Belgrave Square, London, 13 May 1992.

Preface vii
Application of diffusing-wave spectroscopy to particle sizing in concentrated dispersions
D.S. Horne and C.M. Davidson (Ayr, UK) 1
Electrical sensing of dispersion behaviour
T.M. Shi, S.J.R. Simons, F.J. Dickin and R.A. Williams (Manchester, UK) 9
Diffusing-wave spectroscopy in concentrated latex dispersions: an investigation using single-mode fibers
E.R. Van Keuren, H. Wiese and D. Horn (Ludwigshafen, Germany) 29
Electroacoustic measurements in concentrated pigment dispersions
T.S.B. Sayer (Slough, UK) 39
Automation of ultrasound velocity scanning for concentrated dispersions
D.J. Wedlock, C.J. McConaghy and S. Hawksworth (Sittingbourne, UK) 49
Experimental investigations of the interaction forces in concentrated dispersions
B.A. de L. Costello, I.T. Kim and P.F. Luckham (London, UK) and Th.F. Tadros (Bracknell, UK) 55
Ultrasonic scattering in concentrated colloidal suspensions
A.K. Holmes and R.E. Challis (Keele, UK) 65
Rheological spectroscopy of concentrated colloidal dispersions
P.R. Williams, D.J.A. Williams and R.L. Williams (Swansea, UK) 75

Vol. 77 No. 2

Special Issue: Surface Modification — Principles and Applications. A collection of papers presented at the Symposium on Surface Modification — Principles and Applications (with special relevance to biotechnical problems), held in Stockholm, Sweden, August 1992.

Publisher's Note i
Preface v
Protonation thermodynamics of membranes grafted with polyelectrolytes controlling solute permeability
M. Casolaro and R. Barbucci (Siena, Italy) 81
Effects of solvency on the interfacial behaviour in aqueous non-ionic polymer systems
M. Malmsten (Södertälje, Sweden), F. Tiberg and B. Lindman (Lund, Sweden) and
K. Holmberg (Stockholm, Sweden) 91
Immobilization of protein on monodispersed colloidal silica with poly(ethylene glycol) spacer and application of the composites to immunological agglutination tests
K. Yoshinaga, A. Kondo, K. Higashitani and T. Kito (Kitakyushu, Japan) 101
Poly(ethylene oxide) surface coatings: relations between intermolecular forces, layer structure and protein repellency
P. Claesson (Stockholm, Sweden) 109
Modulation of surface flow by divalent cations and protons
C.A. Pasternak and C.L. Bashford (London, UK), Y.E. Korchev, T.K. Rostovtseva and
A.A. Lev (St. Petersburg, Russian Federation) 119

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 77 (1993) 234–235
Elsevier Science Publishers B.V., Amsterdam

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents; Physical, Chemical & Earth Sciences; INSPEC; PASCAL/CNRS)

Vol. 77 No. 1

Special Issue: Concentrated Dispersions — Advances in Instrumental Methods. A collection of papers presented at a one-day meeting held at the Society of Chemical Industry, 14/15 Belgrave Square, London, 13 May 1992.

Preface vii
Application of diffusing-wave spectroscopy to particle sizing in concentrated dispersions
D.S. Horne and C.M. Davidson (Ayr, UK) 1
Electrical sensing of dispersion behaviour
T.M. Shi, S.J.R. Simons, F.J. Dickin and R.A. Williams (Manchester, UK) 9
Diffusing-wave spectroscopy in concentrated latex dispersions: an investigation using single-mode fibers
E.R. Van Keuren, H. Wiese and D. Horn (Ludwigshafen, Germany) 29
Electroacoustic measurements in concentrated pigment dispersions
T.S.B. Sayer (Slough, UK) 39
Automation of ultrasound velocity scanning for concentrated dispersions
D.J. Wedlock, C.J. McConaghy and S. Hawksworth (Sittingbourne, UK) 49
Experimental investigations of the interaction forces in concentrated dispersions
B.A. de L. Costello, I.T. Kim and P.F. Luckham (London, UK) and Th.F. Tadros (Bracknell, UK) 55
Ultrasonic scattering in concentrated colloidal suspensions
A.K. Holmes and R.E. Challis (Keele, UK) 65
Rheological spectroscopy of concentrated colloidal dispersions
P.R. Williams, D.J.A. Williams and R.L. Williams (Swansea, UK) 75

Vol. 77 No. 2

Special Issue: Surface Modification — Principles and Applications. A collection of papers presented at the Symposium on Surface Modification — Principles and Applications (with special relevance to biotechnical problems), held in Stockholm, Sweden, August 1992.

Publisher's Note i
Preface v
Protonation thermodynamics of membranes grafted with polyelectrolytes controlling solute permeability
M. Casolaro and R. Barbucci (Siena, Italy) 81
Effects of solvency on the interfacial behaviour in aqueous non-ionic polymer systems
M. Malmsten (Södertälje, Sweden), F. Tiberg and B. Lindman (Lund, Sweden) and
K. Holmberg (Stockholm, Sweden) 91
Immobilization of protein on monodispersed colloidal silica with poly(ethylene glycol) spacer and application of the composites to immunological agglutination tests
K. Yoshinaga, A. Kondo, K. Higashitani and T. Kito (Kitakyushu, Japan) 101
Poly(ethylene oxide) surface coatings: relations between intermolecular forces, layer structure and protein repellency
P. Claesson (Stockholm, Sweden) 109
Modulation of surface flow by divalent cations and protons
C.A. Pasternak and C.L. Bashford (London, UK), Y.E. Korchev, T.K. Rostovtseva and
A.A. Lev (St. Petersburg, Russian Federation) 119

Hydrophilized and functionalized microtiter plates for the site-specific coupling of antigens and antibodies: application to the diagnosis of viral cardiac and autoimmune diseases
V. Thomas (Oullins, France), K. Bergström (Stenungsund, Sweden), G. Quash (Oullins, France) and K. Holmberg (Stockholm, Sweden) 125
Calcium phosphate coatings for medical and dental implants
L.C. Lucas, W.R. Lacefield, J.L. Ong and R.Y. Whitehead (Birmingham, AL, USA) 141
Electrokinetic characterization of hydrophilic polymer coatings of biotechnical significance
J.M. Van Alstine, N.L. Burns and J.A. Riggs (Huntsville, AL, USA), K. Holmberg (Stockholm, Sweden) and J.M. Harris (Huntsville, AL, USA) 149
Comparison of polysaccharide and poly(ethylene glycol) coatings for reduction of protein adsorption on polystyrene surfaces
E. Österberg, K. Bergström and K. Holmberg (Stenungsund, Sweden), J.A. Riggs, J.M. Van Alstine, T.P. Schuman, N.L. Burns and J.M. Harris (Huntsville, AL, USA) 159
Scanning electron microscopic investigations of large-bore catheters used for extracorporeal detoxification methods
R. Bambauer, P. Mestres, K.J. Pirrung and R. Inniger (Homburg, Germany) 171

Vol. 77 No. 3

Special Issue: Biomedical Applications of Colloid and Surface Science. A collection of papers presented at the 66th Annual Colloid and Surface Science Symposium, Morgantown, WV, 14–17 June, 1992.

Preface iii
Exploring the interactions between glycolipid bilayers
J. Wood and P. Luckham (London, UK) and R. Swart (Runcorn, UK) 179
Non-specific interactions between heparin and poly-L-lysine surfaces
P.G. Hartley, A.I. Bailey and P.F. Luckham (London, UK) and G. Batts (Harrow, UK) 191
Adsorption of monomeric bovine serum albumin on sulfonated polystyrene model colloids. 1. Adsorption isotherms and effect of the surface charge density
J.M. Peula and F.J. de las Nieves (Granada, Spain) 199
Dark-field microscopy analysis of the magnetic deposition of bacteria on a glass surface
M. Zborowski, Y. Tada, P.S. Malchesky and G.S. Hall (Cleveland, OH, USA) 209
Lipase-catalyzed esterification in monolayers and microemulsions
C.P. Singh and D.O. Shah (Gainesville, FL, USA) 219
The use of bioluminescence to study the behaviour of *Listeria monocytogenes* when attached to surfaces
A.J. Walker (Loughborough, UK), J.T. Holah (Chipping Campden, UK), S.P. Denyer (Brighton, UK) and G.S.A.B. Stewart (Loughborough, UK) 225

Author Index 231
Subject Index 232
Contents (Vol. 77) 234